TECHNICAL DATA SHEET

PINHONBIO® L-(+)-Ergothioneine 99%

Fine crystalline L-(+)-ergothioneine powder. The assay is expressed on a dried basis and the optical rotation is specified for an aqueous test solution.

Chemical name	L-(+)-Ergothioneine
CAS number	497-30-3

Quality specifications

Parameter	Specification
Assay (HPLC, dried basis)	≥99.0%
Identification (HPLC)	Retention time matches that of the working reference standard.
Specific rotation (20 °C, D line)	>+122.0° (c = 1, water)
Appearance	White to off-white, fine crystalline powder
Odour and taste	Characteristic
Bulk density	0.70–0.80 g/mL
Loss on drying	≤0.5%
Total heavy metals	≤10 mg/kg
Individual elemental limits	As, Cd and Pb each ≤1.0 mg/kg. Hg ≤0.1 mg/kg.
Total bacterial count	≤1,000 CFU/g
Yeasts and moulds	≤100 CFU/g
Specified microorganisms	S. aureus, Salmonella and E. coli each absent in 1 g

Formulation guidance

When weighing the powder for a target active level, use the lot assay on its stated dried basis and account for the lot's loss on drying.

Packaging and storage

Double plastic liners in an outer fibre drum. Store tightly closed in a cool, dry place protected from light. Shelf life is 24 months from manufacture under these conditions.

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